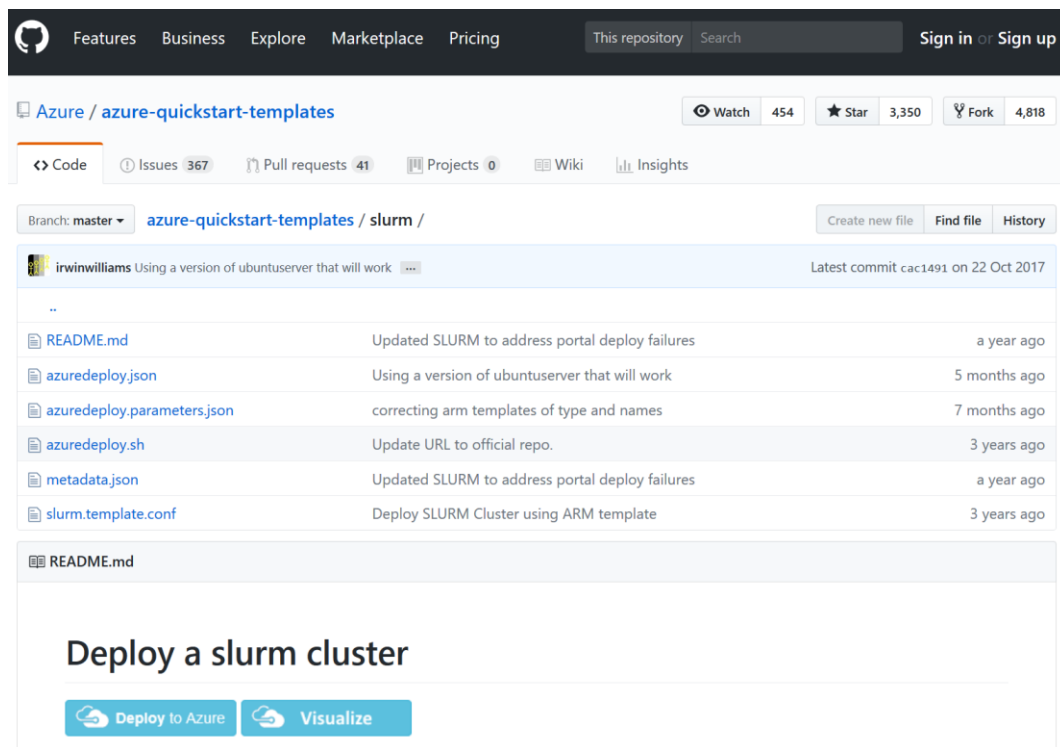


# Exercise 1: Deploy a SLURM cluster from ARM template

Duration: 15 minutes

In this exercise, using ARM template from public Azure Github repository you will deploy a simple cluster with SLURM scheduler.

1. Open SLURM repository in Github Azure Quickstart Templates page:  
<https://github.com/Azure/azure-quickstart-templates/tree/master/slurm>



You may want to explore the repository content to find out how ARM template deployment works internally.

2. Click "Deploy to Azure" button:



3. Fill out the Azure quickstart template deployment form that will open in your Azure portal account:

## SLURM cluster

Azure quickstart template

### BASICS

* Subscription	Azure — dostęp próbny	▼
* Resource group	<input checked="" type="radio"/> Create new <input type="radio"/> Use existing	
	slurmcluster	✓
* Location	West Europe	▼

### SETTINGS

* Admin Username ⓘ	labuser	✓
* Admin Password ⓘ	••••••••	✓
Vm Size ⓘ	Standard_D1_v2	
Scale Number ⓘ	2	
_artifacts Location ⓘ	https://raw.githubusercontent.com/Azure/azure-quickstart-templates/master/slurm	
_artifacts Location Sas Token ⓘ		

For **Subscription** select your Azure trial subscription.

For **Resource group** select **Create new** and provide a name, e.g. **slurmcluster**

For Location select e.g. West Europe.

Provide admin username (e.g. labuser) and password.

Leave the rest of the fields with their default values.

4. Check the "I agree the terms and conditions stated above" and "Pin to dashboard" checkboxes and click "Purchase":

### TERMS AND CONDITIONS

[Template information](#) | [Azure Marketplace Terms](#) | [Azure Marketplace](#)

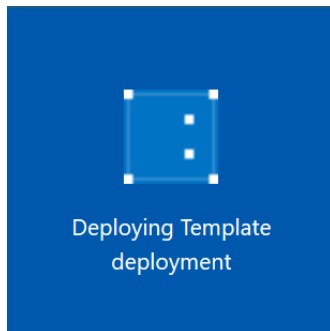
By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize my current payment method for the fees associated with the offering(s), including applicable taxes, with frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the offering is a third-party offering, Microsoft may share my contact information and other details of such deployment with the third party.

☒ I agree to the terms and conditions stated above

☒ Pin to dashboard

**Purchase**

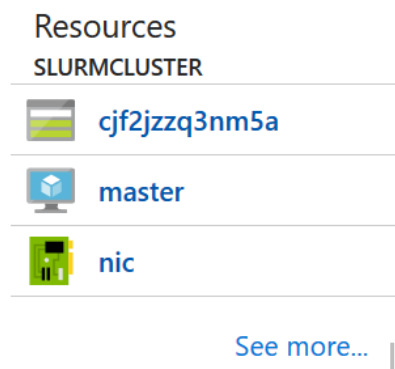
Deployment of your SLURM cluster will now be taking place, marked by "Deploying Template deployment" icon in your Azure portal dashboard:



Deploying Template  
deployment

It will take 5-7 minutes for the deployment to finish.

After the deployment is finished you will see the **slurmcluster** resource group tab in the portal dashboard:

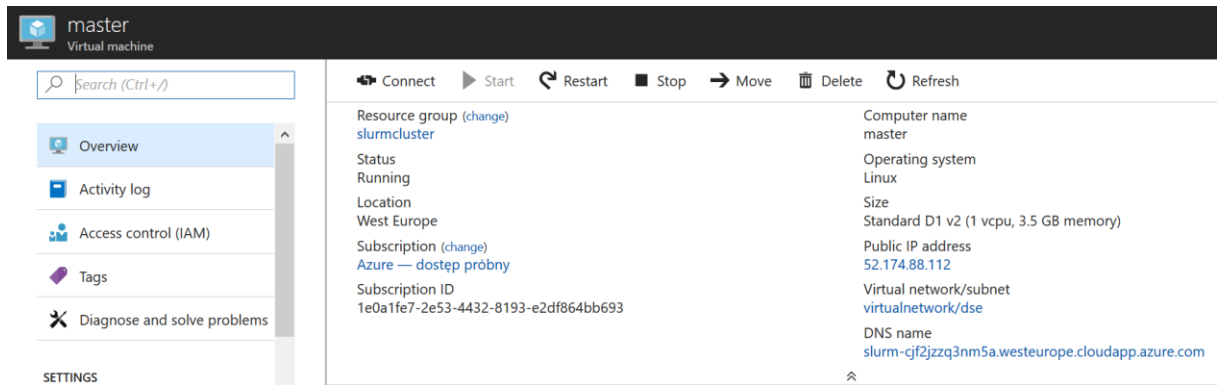


5. Open the **slurmcluster** resource group tab by clicking on "See more". **slurmcluster** resource group tab will open and you will see all slurmcluster resources:

A screenshot of the Azure portal 'slurmcluster' resource group page. The left sidebar shows navigation options like Overview, Activity log, Access control (IAM), Tags, SETTINGS (Quickstart, Resource costs, Deployments, Policies, Properties, Locks, Automation script), and MONITORING. The main area displays a table of resources with columns for NAME and TYPE. The table lists 9 items: 'cjf2jzzq3nm5a' (Storage account), 'master' (Virtual machine), 'nic' (Network interface), 'nic-worker-0' (Network interface), 'nic-worker-1' (Network interface), 'publicip' (Public IP address), 'virtualnetwork' (Virtual network), 'worker0' (Virtual machine), and 'worker1' (Virtual machine).

NAME	TYPE
cjf2jzzq3nm5a	Storage account
master	Virtual machine
nic	Network interface
nic-worker-0	Network interface
nic-worker-1	Network interface
publicip	Public IP address
virtualnetwork	Virtual network
worker0	Virtual machine
worker1	Virtual machine

6. Click on **master** Virtual machine icon to open its tab:



On the **master** VM tab you will see connection information for the SLURM cluster master node: public IP address and DNS name.

You may also click on Connect button to see the SSH login command:

 **Connect**

Connect

To connect to your Linux virtual machine using SSH, use the following command: `ssh labuser@52.174.88.112`

OK

7. Login to master node using your SSH client and enjoy using your SLURM cluster!  
\$ sinfo

```
labuser@master:~$ sinfo
PARTITION AVAIL  TIMELIMIT  NODES  STATE NODELIST
debug*    up       infinite    3     idle master,worker[0-1]
labuser@master:~$
```

## Step 5: Clean up resources

8. As the last step of the exercise clean up the SLURM cluster by deleting the resource group:

Click "**Delete resource group**" button on the **slurmcluster** resource group tab:

slurmcluster

Resource group

Search (Ctrl+)

Overview

Activity log

Access control (IAM)

Tags

SETTINGS

Quickstart

Resource costs

Deployments

Policies

+ Add

Edit columns

Delete resource group

Refresh

Move

Assign Ti

Subscription (change)

Azure — dostępn

Subscription ID

1e0a1fe7-2e53-4432-8193-e2df864bb693

Deployments

1 Succeeded

Filter by name...

All types

All locations

9 items

Show hidden types

NAME	TYPE
cjf2jzzq3nm5a	Storage account
master	Virtual machine
nic	Network interface
nic-worker-0	Network interface

Confirm the operation by typing the resource group name "slurmcluster" to the form field and clicking **Delete** button:

Are you sure you want to delete "slurmcluster"?

Warning! Deleting the "slurmcluster" resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.

Please enter 'slurmcluster' to confirm delete.

TYPE THE RESOURCE GROUP NAME

slurmcluste

!